## CITY OF ALBUQUERQUE

Planning Department David Campbell, Director



March 25, 2019

Larry Read, P.E. Larry Read & Associates 8100 Wyoming Blvd NE, Suite M-4 Box 107 Albuquerque, NM, 87113

RE: 7410 Washington St. NE

**Grading and Drainage Plan** Engineer's Stamp Date: 03/17/19 Hydrology File: D17D003AA

Dear Mr. Read:

Based upon the information provided in your revised submittal received 03/21/2019, the Grading PO Box 1293

and Drainage Plan is approved for Building Permit, Grading Permit and SO-19 Permit.

Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter. Prior to approval in support of Permanent Release of Occupancy

by Hydrology, Engineer Certification per the DPM checklist will be required.

If the project total area of disturbance (including the staging area and any work within the NM 87103

adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater

Quality Engineer (Curtis Cherne, PE, ccherne@cabq.gov, 924-3420) 14 days prior to any earth

www.cabq.gov disturbance.

Albuquerque

If you have any questions, please contact me at 924-3995 or rbrissette@cabq.gov.

Sincerely,

Renée C. Brissette, P.E. CFM Senior Engineer, Hydrology

Renée C. Brissette

Planning Department



# City of Albuquerque

Planning Department

Development & Building Services Division

### DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 6/2018)

roject Title: 7410 WASHINGTON	Building Permit #:	Hydrology File #: D17D003AA
RB#:	EPC#:	Work Order#:
egal Description: LOT 2, JOURNAL	CENTER PHASE 2, UNIT 1	
ity Address: 7410 Washington STF	REET NE	
pplicant: LARRY READ & ASSOCIAT	TES (AGENT)	Contact: LARRY READ
ddress: 8100 WYOMING BLVD NE,	SUITE M-4 BOX 107, 87113	
hone#· 239-7692	Fax#:	E-mail: <u>LREAD@READENGINEERI</u>
	11.	Contact: JASON HALL
other Contact: PIPER, LTD ddress: 5610 SAN FRANCISCO BLV	7D. NE 87109	Contact.
ddress:	For#.	E-mail:
		E X DRB SITE ADMIN SITE
EPARTMENT TRANSPORTATION		
Check all that Apply:		APPROVAL/ACCEPTANCE SOUGHT:
TYPE OF SUBMITTAL:		DING PERMIT APPROVAL
ENGINEER/ARCHITECT CERTIFICA		TIFICATE OF OCCUPANCY
PAD CERTIFICATION		IMINARY PLAT APPROVAL
CONCEPTUAL G & D PLAN		PLAN FOR SUB'D APPROVAL
X GRADING PLAN	X SITE	PLAN FOR BLDG. PERMIT APPROVAL
DRAINAGE REPORT DRAINAGE MASTER PLAN	FINA	L PLAT APPROVAL
FLOODPLAIN DEVELOPMENT PER	MIT APPLIC	RELEASE OF FINANCIAL GUARANTEE
ELEVATION CERTIFICATE	011 E	NDATION PERMIT APPROVAL
CLOMR/LOMR		DING PERMIT APPROVAL
TRAFFIC CIRCULATION LAYOUT	(TCI)	9 APPROVAL
TRAFFIC IMPACT STUDY (TIS)		ING PERMIT APPROVAL
STREET LIGHT LAYOUT		DING/ PAD CERTIFICATION
OTHER (SPECIFY) PRE-DESIGN MEETING?		K ORDER APPROVAL
		MR/LOMR ODPLAIN DEVELOPMENT PERMIT
		ER (SPECIFY)

FEE PAID:\_\_\_

March 20, 2019

Western Hemlock, Ltd. 5610 San Francisco Blvd. NE Albuquerque, NM 87109

Re: 7400 Washington Ave. NE Albuquerque, NM

To Whom It May Concern;

The building ownership of 7400 Washington has been working with the ownership of 7410 Washington during the design process and is aware and approves of the proposed changes to the drainage easement between the two properties.

If there are any questions regarding this matter please contact me.

Jason Hall Property Manager 505 362-6584



#### TREASURY DIVISION DAILY DEPOSIT

# Transmittals for: PROJECTS Only

# Payment-in-Lieu for Storm Water Quality Volume Requirement

CASH COUNT	AMOUNT	ACCOUNT NUMBER	FUND NUMBER	BUSINESS UNIT	PROJECT ID	ACTIVITY ID	AMOUNT
TOTAL CHECKS	\$ 3,704.00	461615	305	PCDMD	24_MS4	7547210	\$ 3,704.00
TOTAL AMOUNT						TOTAL DEPOSIT	\$3,704.00
Hydrology#: [	D17D003AA			Name: 7	410 Washingto	n St NE	
Carrier T	Payment In-Lieu Volume Require		ater Quality		, ro tradiningto		
Address/Legal D	escription: Lo	t 2, Journal Ce	enter Phase 2	, Unit 1			

Volume Requirement

Address/Legal Description: Lot 2, Journal Center Phase 2, Unit 1

DEPARTMENT NAME: Planning Department/Development Review Services, Hydrology

PREPARED BY Renée C. Brissette, P.E. CFM PHONE 505-924-3995

BUSINESS DATE February 12, 2019

DUAL VERIFICATION OF DEPOSIT Lane Breasetts

EMPLOYEE SIGNATURE

AND BY

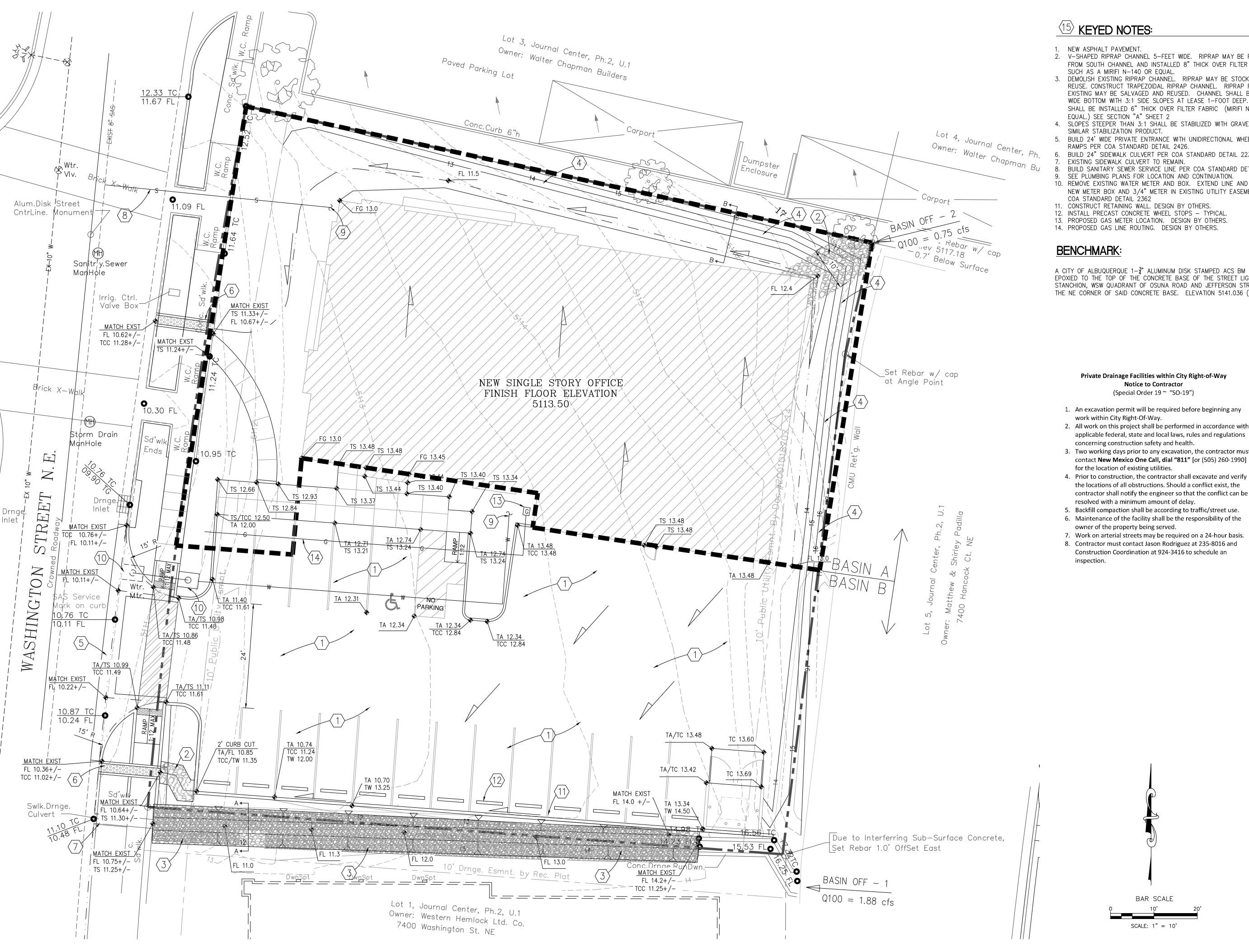
EMPLOYEE SIGNATURE

REMITTER: AMOUNT:
BANK:

The Payment-in-Lieu can be paid at the Plaza del Sol Treasury, 600 2<sup>nd</sup> St. NW. **Bring three copies of this invoice to the Treasury** and provide a copy of the receipt to Hydrology, Suite 201, 600 2<sup>nd</sup> St. NW, or e-mail with the Hydrology submittal to PLNDRS@cabq.gov.

DATE ON CHECK:

CHECK #:



2. V-SHAPED RIPRAP CHANNEL 5-FEET WIDE. RIPRAP MAY BE RECLAIMED FROM SOUTH CHANNEL AND INSTALLED 8" THICK OVER FILTER FABRIC

3. DEMOLISH EXISTING RIPRAP CHANNEL. RIPRAP MAY BE STOCKPIED FOR REUSE. CONSTRUCT TRAPEZOIDAL RIPRAP CHANNEL. RIPRAP FROM EXISTING MAY BE SALVAGED AND REUSED. CHANNEL SHALL BE 3-FOOT WIDE BOTTOM WITH 3:1 SIDE SLOPES AT LEASE 1-FOOT DEEP. RIPRAP SHALL BE INSTALLED 6" THICK OVER FILTER FABRIC (MIRIFI N-140 OR

4. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH GRAVEL PAVE OR SIMILAR STABILIZATION PRODUCT.

5. BUILD 24' WIDE PRIVATE ENTRANCE WITH UNIDIRECTIONAL WHEELCHAIR

BUILD 24" SIDEWALK CULVERT PER COA STANDARD DETAIL 2236.

BUILD SANITARY SEWER SERVICE LINE PER COA STANDARD DETAIL 2125.

10. REMOVE EXISTING WATER METER AND BOX. EXTEND LINE AND INSTALL NEW METER BOX AND 3/4" METER IN EXISTING UTILITY EASEMENT PER

11. CONSTRUCT RETAINING WALL. DESIGN BY OTHERS.

13. PROPOSED GAS METER LOCATION. DESIGN BY OTHERS.

14. PROPOSED GAS LINE ROUTING. DESIGN BY OTHERS.

A CITY OF ALBUQUERQUE  $1-\frac{3}{4}$  ALUMINUM DISK STAMPED ACS BM 13-E17 EPOXIED TO THE TOP OF THE CONCRETE BASE OF THE STREET LIGHT STANCHION, WSW QUADRANT OF OSUNA ROAD AND JEFFERSON STREET NE ON THE NE CORNER OF SAID CONCRETE BASE. ELEVATION 5141.036 (NAVD 1988)

#### Private Drainage Facilities within City Right-of-Way

**Notice to Contractor** 

(Special Order 19 ~ "SO-19")

1. An excavation permit will be required before beginning any work within City Right-Of-Way.

2. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations

3. Two working days prior to any excavation, the contractor must contact **New Mexico One Call, dial "811"** [or (505) 260-1990]

4. Prior to construction, the contractor shall excavate and verify the locations of all obstructions. Should a conflict exist, the

resolved with a minimum amount of delay. 5. Backfill compaction shall be according to traffic/street use.

6. Maintenance of the facility shall be the responsibility of the owner of the property being served.

7. Work on arterial streets may be required on a 24-hour basis. 8. Contractor must contact Jason Rodriguez at 235-8016 and Construction Coordination at 924-3416 to schedule an



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Civil Engineers

READ & ASSOCIAT

Civil Engineers

8100 Wyoming Blvd, NE
Albuquerque, New Mexico 871
Suite M4 Box 107
(505) 239-7692

⊋ SHEET

#### LOCATION & DESCRIPTION

THE PROPOSED SITE IS AN UNDEVELOPED 0.52 ACRE COMMERCIAL TRACT, LOCATED ON THE EAST SIDE WASHINGTON STREET NE. THE PARCELS TO THE NORTH, EAST, AND SOUTH ARE DEVELOPED OFFICE/WAREHOUSE FACILITIES.

THE CURRENTLY PROPOSED CONSTRUCTION ON THIS SITE IS A 7,010 (Approximately) OFFICE WAREHOUSE FACILITY WITH PAVED PARKING LOT.

#### FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0136G, EFFECTIVE SEPTEMBER 26, 2008 IS NOT WITHIN ANY DESIGNATED 100-YEAR FLOODPLAIN.

#### **METHODOLOGY**

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE QUICK CALCULATIONS OF THE JUNE 1997 RELEASE OF THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2.

#### **PRECIPITATION**

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS. THIS SITE IS WITHIN ZONE 2 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, SECTION 22.2. TABLES WITHIN THIS SECTION WERE USED TO ESTABLISH THE 6-HOUR PRECIPITATION, EXCESS PRECIPITATION, AND PEAK DISCHARGE.

#### EXISTING DRAINAGE

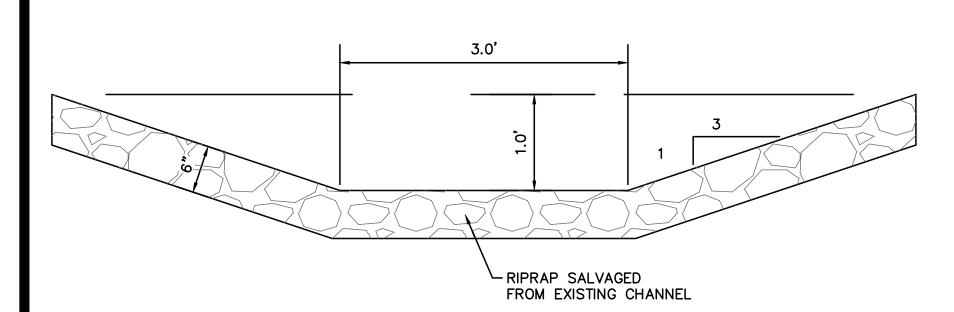
THE EXISTING UNDEVELOPED SITE SLOPES FROM NORTHEAST TO SOUTHWEST WHERE THE RUNOFF DRAINS OVER THE CURB INTO WASHINGTON STREET. ONCE IN THE STREET IT RUNS NORTH WITHIN THE CURB TO AN EXISTING STORM INLET LOCATED ABOUT CENTER OF THIS SITE. THE SITE IS IMPACTED BY RUNOFF CHANNELED INTO THE SOUTHEAST CORNER OF THE SITE FROM LOTS TO THE EAST - BASIN OFF-1. A RIPRAP CHANNEL CONVEYS THE RUNOFF TO WASHINGTON STREET. THIS CHANNEL IS MOSTLY WITHIN AN EXISTING DRAINAGE EASEMENT IN ADDITION, RUNOFF FROM THE PARCELS TO THE EAST DISCHARGE INTO THE VERY NORTHEAST CORNER OF THIS SITE. CURRENTLY THIS RUNOFF SHEET FLOWS ACROSS THE SITE, NORTHEAST TO SOUTHWEST WITH THE RUNOFF GENERATED ONSITE. IT DISCHARGES OVER THE CURB INTO Washington STREET.

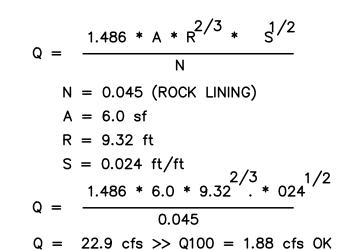
#### **DEVELOPED CONDITION**

AS STATED ABOVE, THE CURRENT PROPOSED DEVELOPMENT ON THIS SITE IS A COMMERCIAL OFFICE/WAREHOUSE FACILITY WITH ASSOCIATED PAVED PARING. THE PROPOSED GRADING AND DRAINAGE PLAN FOLLOWS THE GENERAL DRAINAGE PATTERNS AND DISCHARGE POINTS. THE RUNOFF FROM OFFSITE BASIN OFF-1 CONTINUES TO FLOW DOWN THE EXISTING CONCRETE FLUME IN THE SOUTHEAST CORNER OF THE SITE THEN WEST TO WASHINGTON STREET. THE EXISTING CHANNEL FROM THE END OF THE FLUME TO WASHINGTON IS POORLY DEFINED SO WE ARE PROPOSING TO REMOVE THE EXISTING RIPRAP, RESHAPE THE CHANNEL WITHIN THE EXISTING 10' DRAINAGE EASEMENT, THEN REPLACE THE RIPRAP. THE RUNOFF DISCHARGES INTO WASHINGTON STREET VIA AN EXISTING SIDEWALK CULVERT. THE RUNOFF FROM THE OFFSITE BASIN OFF-2 IN THE NORTHEAST CORNER OF THE SITE IS A SMALL FLOW RATE SO WE CAPTURED IT IN THE SWALE, AROUND THE NORTH AND WEST SIDE OF THE BUILDING TO DISCHARGE THROUGH A PROPOSED SIDEWALK CULVERT INTO WASHINGTON STREET. RUNOFF FROM ONSITE BASIN 'B' FLOWS WEST IN THE PAVED PARKING AREA AND DISCHARGES INTO WASHINGTON STREET VIA A PROPOSED NEW SIDEWALK CULVERT.

#### WATER QUALITY PONDING

THE PROPOSED DEVELOPMENT REQUIRES TWO PONDING AREAS PER THE TABLE TO THE RIGHT. THE DEVELOPER DESIRES TO USE THE "CASH-IN-LIEU" OPTION SINCE THE PROPOSED SITE PLAN DOES NOT READILY PROVIDE LOCATIONS FOR THE REQUIRED PONDING.





## SECTION A-A SHEET 1/3

#### 100-YEAR HYDROLOGIC CALCULATIONS

		L	AND TR	EATMEN	IT	WEIGHTED					
BASIN	AREA	Α	В	С	D	E	V (6-hr)	V (6-hr)	V(10 day)	V(10 day)	Q
#	(acre)	(%)	(%)	(%)	(%)	(in)	(acre-ft)	(cu-ft)	(acre-ft)	(cu-ft)	(cfs)
					EXIST	ING CONDITION	ONS				= 13
BASIN A	0.27	100.00	0.00	0.00	0.00	0.53	0.01	525	0.01	525	0.43
BASIN B	0.25	100.00	0.00	0.00	0.00	0.53	0.01	481	0.01	481	0.39
OFF 1	0.40	100.00	0.00	0.00	0.00	0.53	0.02	770	0.02	770	0.62
OFF 2	0.16	100.00	0.00	0.00	0.00	0.53	0.01	308	0.01	308	0.25
					PROPC	SED CONDIT	IONS				
BASIN A	0.27	0.00	0.00	45.00	55.00	1.67	0.04	1,659	0.06	2,531	1.09
BASIN B	0.25	0.00	0.00	14.80	85.20	1.97	0.04	1,791	0.07	3,028	1.12
OFF 1	0.40	0.00	0.00	0.00	100.00	2.12	0.07	3,078	0.12	5,401	1.88
OFF 2	0.16	0.00	0.00	0.00	100.00	2.12	0.03	1,231	0.05	2,161	0.75

EXCESS PRECIP.	0.53	0.78	1.13	2.12	Ei (in)
PEAK DISCHARGE	1.56	2.28	3.14	4.7	QPi (cfs)

	ZONE =	2
%A) + (EB)(%B) + (EC)(%C) + (ED)(%D)	P6-HR (in.) :	2.35
= (WEIGHTED E)(AREA)/12	P24-HR (in.)	2.75
/6-HR + (AD)(P10DAY - P6-HR)/12	P10DAY (in.)	3.95
QPB)(AB) + (QPC)(AC) + (QPD)(AD)		

We	ir Flow E	quation = CP	PH^3/2		Weir	Flow E	quation = CP	PH^3/2	
С	L	(ft)	h (ft)	Q(cfs)	С	L	(ft)	h (ft)	Q(cfs)
	2.6	3.33	0.10	0.27		2.6	3.33	0.10	0.:
	2.6	3.33	0.20	0.77		2.6	3.33	0.20	0.
	2.6	3.33	0.30	1.42		2.6	3.33	0.30	1.
	2.6	3.33	0.36	1.87		2.6	3.33	0.36	1.3
	2.6	3.33	0.50	3.06		2.6	3.33	0.50	3.
	2.6	3.33	0.60	4.02		2.6	3.33	0.60	4.
	2.6	3.33	0.70	5.07		2.6	3.33	0.70	5.

2.6 3.33

0.80

5.07

6.20

Analysis is for proposed north sidewalk culvert Analysis is for proposed south sidewalk culvert Q100 = 1.88cfs BASIN A + OFF-2 Q100 = 1.84cfs BASIN B

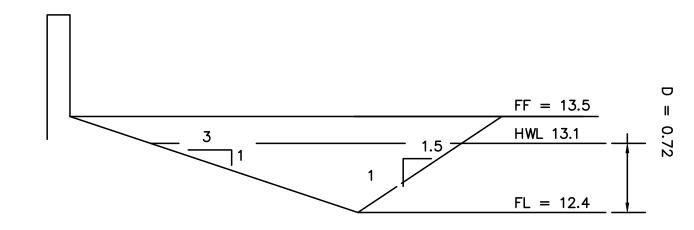
0.80 6.20

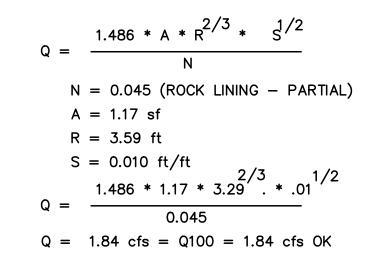
2.6 3.33

#### WATER QUALITY PONDING

POND ID	BASIN ID	CONTRIBUTING	REQUIRED PONDING	PONDING VOLUME	PONDING VOLUME
		IMPERVIOUS			
		AREA		(0.34/12*AREA)	PROVIDED
		( SQ-FT)	( IN )	( CU-FT)	(CU-FT)
SITE	А	7080	0.34	201	*
	В	9278	0.34	263	*
TOTAL		16358		463	*

\* THE OWNER HAS ELECTED TO PAY THE PAYMENT IN LIEU FOR THE REQUIRED STORMWATER QUALITY VOLUME OF 463 CUBIC FEET. THIS PAYMENT AMOUNT = 463 CF X \$8/CF = \$3,704.00

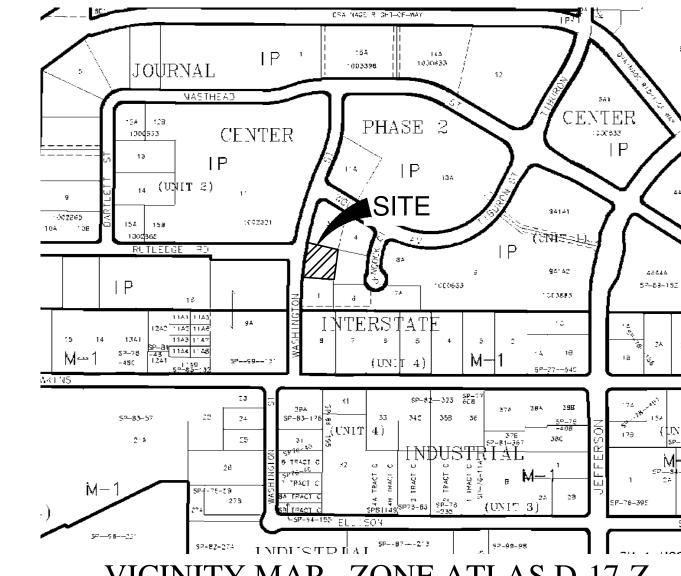




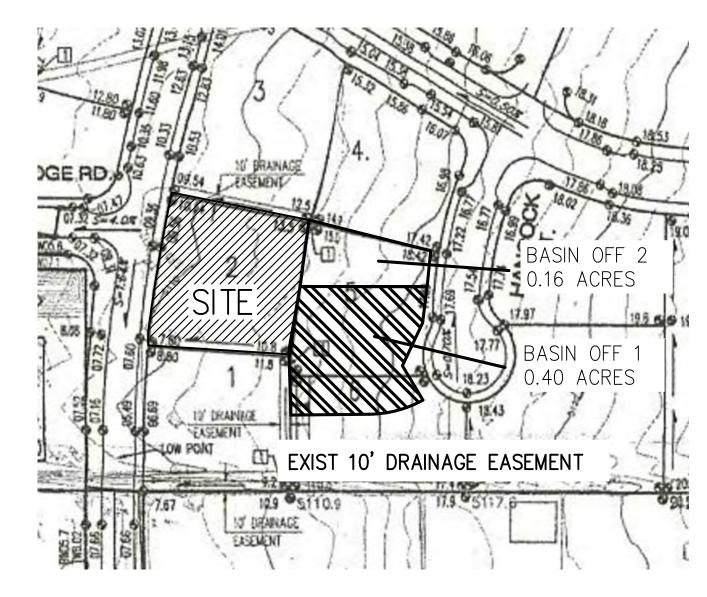
## SECTION B-B SHEET 1/3



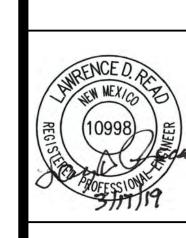
FIRM PANEL 35001C0136G Effective 09/26/2008



VICINITY MAP - ZONE ATLAS D-17-Z



OFFSITE DRAINAGE BASIN MAP SCALE: 1" = 100'



HYDI

ARR

NON - 2 E 4